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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

| | | | |
|---------|----|--------|---|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | Apr 08 | "Ask CAS" for self-help around the clock |
| NEWS | 3 | Apr 09 | BEILSTEIN: Reload and Implementation of a New Subject Area |
| NEWS | 4 | Apr 09 | ZDB will be removed from STN |
| NEWS | 5 | Apr 19 | US Patent Applications available in IFICDB, IFIPAT, and |
| IFIUDB | | | |
| NEWS | 6 | Apr 22 | Records from IP.com available in CAPLUS, HCAPLUS, and |
| ZCAPLUS | | | |
| NEWS | 7 | Apr 22 | BIOSIS Gene Names now available in TOXCENTER |
| NEWS | 8 | Apr 22 | Federal Research in Progress (FEDRIP) now available |
| NEWS | 9 | Jun 03 | New e-mail delivery for search results now available |
| NEWS | 10 | Jun 10 | MEDLINE Reload |
| NEWS | 11 | Jun 10 | PCTFULL has been reloaded |
| NEWS | 12 | Jul 02 | FOREGE no longer contains STANDARDS file segment |
| NEWS | 13 | Jul 22 | USAN to be reloaded July 28, 2002; saved answer sets no longer valid |
| NEWS | 14 | Jul 29 | Enhanced polymer searching in REGISTRY |
| NEWS | 15 | Jul 30 | NETFIRST to be removed from STN |
| NEWS | 16 | Aug 08 | CANCERLIT reload |
| NEWS | 17 | Aug 08 | PHARMAMarketLetter(PHARMAML) - new on STN |
| NEWS | 18 | Aug 08 | NTIS has been reloaded and enhanced |
| NEWS | 19 | Aug 19 | Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN |
| NEWS | 20 | Aug 19 | IFIPAT, IFICDB, and IFIUDB have been reloaded |
| NEWS | 21 | Aug 19 | The MEDLINE file segment of TOXCENTER has been reloaded |
| NEWS | 22 | Aug 26 | Sequence searching in REGISTRY enhanced |
| NEWS | 23 | Sep 03 | JAPIO has been reloaded and enhanced |
| NEWS | 24 | Sep 16 | Experimental properties added to the REGISTRY file |
| NEWS | 25 | Sep 16 | CA Section Thesaurus available in CAPLUS and CA |
| NEWS | 26 | Oct 01 | CASREACT Enriched with Reactions from 1907 to 1985 |
| NEWS | 27 | Oct 21 | EVENTLINE has been reloaded |
| NEWS | 28 | Oct 24 | BEILSTEIN adds new search fields |
| NEWS | 29 | Oct 24 | Nutraceuticals International (NUTRACEUT) now available on |
| STN | | | |
| NEWS | 30 | Oct 25 | MEDLINE SDI run of October 8, 2002 |
| NEWS | 31 | Nov 18 | DKILIT has been renamed APOLLIT |
| NEWS | 32 | Nov 25 | More calculated properties added to REGISTRY |
| NEWS | 33 | Dec 02 | TIBKAT will be removed from STN |
| NEWS | 34 | Dec 04 | CSA files on STN |
| NEWS | 35 | Dec 17 | PCTFULL now covers WP/PCT Applications from 1978 to date |
| NEWS | 36 | Dec 17 | TOXCENTER enhanced with additional content |
| NEWS | 37 | Dec 17 | Adis Clinical Trials Insight now available on STN |

NEWS 38 Dec 30 ISMEC no longer available
 NEWS 39 Jan 21 NUTRACEUT offering one free connect hour in February 2003
 NEWS 40 Jan 21 PHARMAML offering one free connect hour in February 2003
 NEWS 41 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
 ENERGY, INSPEC
 NEWS 42 Feb 13 CANCERLIT is no longer being updated
 NEWS 43 Feb 24 METADEX enhancements
 NEWS 44 Feb 24 PCTGEN now available on STN
 NEWS 45 Feb 24 TEMA now available on STN
 NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation
 NEWS 47 Feb 26 PCTFULL now contains images
 NEWS 48 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
 NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003
 NEWS 50 Mar 20 EVENTLINE will be removed from STN
 NEWS 51 Mar 24 PATDPAFULL now available on STN
 NEWS 52 Mar 24 Additional information for trade-named substances without
 structures available in REGISTRY
 NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
 CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
 NEWS LOGIN Welcome Banner and News Items
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
 specific topic.

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 of commercial gateways or other similar uses is prohibited and may
 result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:54:27 ON 04 APR 2003

=> fil reg

| | | |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 09:54:34 ON 04 APR 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

DICTIONARY FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

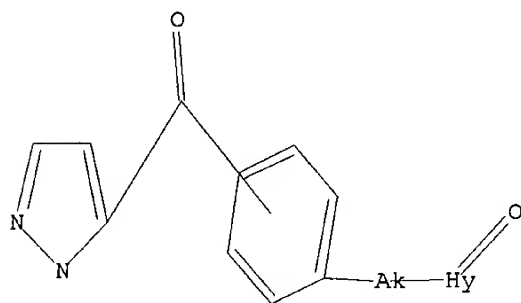
Uploading 09937631.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 09:54:47 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 66867 TO ITERATE

100.0% PROCESSED 66867 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.02

L2 0 SEA SSS FUL L1

=>

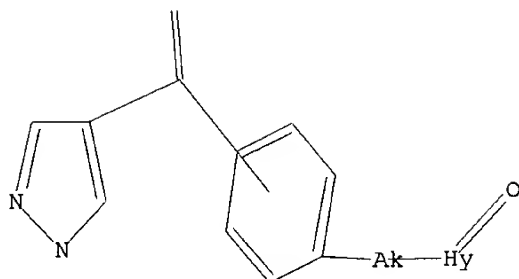
Uploading 09937631.str

L3 STRUCTURE UPLOADED

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L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 12 ful

FULL SEARCH INITIATED 09:55:25 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 66867 TO ITERATE

100.0% PROCESSED 66867 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.02

L4 0 SEA SSS FUL L1

=>

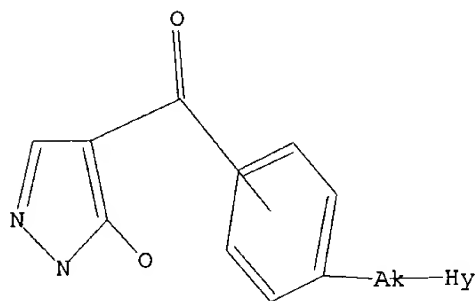
Uploading 09937631.str

L5 STRUCTURE UPLOADED

=> d

L5 HAS NO ANSWERS

L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 15 ful

FULL SEARCH INITIATED 09:56:05 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 12321 TO ITERATE

100.0% PROCESSED 12321 ITERATIONS

56 ANSWERS

SEARCH TIME: 00.00.01

L6 56 SEA SSS FUL L5

=> s 16 and caplus/lc
27129798 CAPLUS/LC

L7 55 L6 AND CAPLUS/LC

=> s 16 not 17

L8 1 L6 NOT L7

=> d

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 347399-60-4 REGISTRY

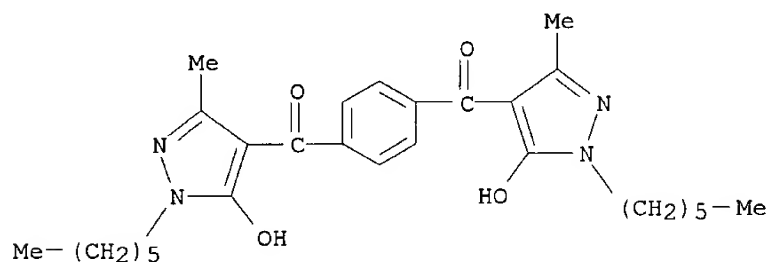
CN Methanone, 1,4-phenylenebis[(1-hexyl-5-hydroxy-3-methyl-1H-pyrazol-4-yl)-
(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C28 H38 N4 O4

SR Chemical Library

LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

450.35

450.56

FILE 'CAPLUS' ENTERED AT 09:56:22 ON 04 APR 2003

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FILE COVERS 1907 - 4 Apr 2003 VOL 138 ISS 15
FILE LAST UPDATED: 3 Apr 2003 (20030403/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d his

(FILE 'HOME' ENTERED AT 09:54:27 ON 04 APR 2003)

FILE 'REGISTRY' ENTERED AT 09:54:34 ON 04 APR 2003

L1 STRUCTURE UPLOADED
L2 0 S L1 FUL
L3 STRUCTURE UPLOADED
L4 0 S L2 FUL
L5 STRUCTURE UPLOADED
L6 56 S L5 FUL
L7 55 S L6 AND CAPLUS/LC
L8 1 S L6 NOT L7

FILE 'CAPLUS' ENTERED AT 09:56:22 ON 04 APR 2003

=> s l6

L9 14 L6

=> s wo0058306/pn

L10 0 WO0058306/PN
(WO58306/PN)

=> s wo200058306/pn

L11 1 WO200058306/PN
(WO2000058306/PN)

=> s l9 not l11

L12 13 L9 NOT L11

=> d 1-13 ibib abs hitstr

L12 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:107336 CAPLUS

DOCUMENT NUMBER: 136:151159

TITLE: Preparation of heteroarylidene cyanamides as
herbicides

INVENTOR(S): Mueller, Klaus-Helmut; Herrmann, Stefan; Hoischen,
Dorothee; Lehr, Stefan; Schwarz, Hans-Georg;
Schallner, Otto; Drewes, Mark Wilhelm; Dahmen, Peter;
Feucht, Dieter; Pontzen, Rolf

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

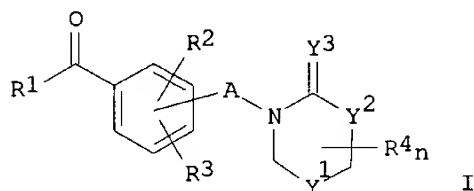
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

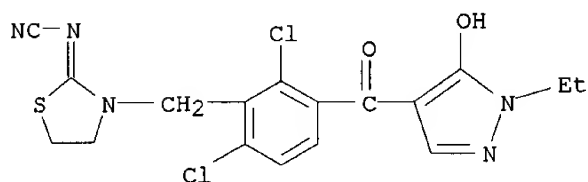
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|-------|-----------------|-------|
| ----- | ---- | ----- | ----- | ----- |

WO 2002010155 A1 20020207 WO 2001-EP8225 20010717
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
DE 10037149 A1 20020207 DE 2000-10037149 20000729
PRIORITY APPLN. INFO.: DE 2000-10037149 A 20000729
OTHER SOURCE(S): MARPAT 136:151159
GI



AB Title compds. [I; n = 0-4; A = alkylene; R1 = (substituted)
1-oxocyclohex-2-en-2-yl, 1H-pyrazol-4-yl, 4-isoxazolyl, alkylcarbonyl;
R2,
R3 = H, NO2, cyano, CO2H, carbamoyl, thiocarbamoyl, halo, (substituted)
alkyl, alkoxy, etc.; R4 = (substituted) alkyl; Y1 = bond, O, S, NZ,
(substituted) alkylene; Y2 = S, NZ; Y3 = NY4, NY4Y5, O; Y4 = H, cyano,
NO2, (substituted) alkylcarbonyl, alkylsulfonyl, arylcarbonyl,
arylsulfonyl; Y5 = cyano, NO2, (substituted) alkylcarbonyl,
alkylsulfonyl,
arylcarbonyl, arylsulfonyl; Z = H, (substituted) alkyl, alkenyl,
alkynyl],
were prepd. Thus, a mixt. of
2-[(2-cyanoimino-1,3-thiazol-3-yl)methyl]-4-
trifluoromethylbenzoic acid (prepn. given), 1,3-cyclohexanedione, and
dicyclohexylcarbodiimide (DCC) in MeCN was stirred for 20 h at room temp.
followed by addn. of Et3N and Me3SiCN and stirring for 2 h at room temp.
to give
3-[2-([2,6-dioxocyclohexyl]carbonyl)-5-trifluoromethylbenzyl]-1,3-
thiazol-2-ylidene cyanamide. I were said to show very strong pre- and
postemergent herbicidal activity and good crop tolerance.
IT 395069-24-6P 395069-26-8P 395069-35-9P
395069-36-0P 395069-37-1P 395069-38-2P
395069-41-7P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN
(Synthetic preparation); BIOL (Biological study); PREP (Preparation);
USES
(Uses)
(prepn. of heteroarylidene cyanamides as herbicides)
RN 395069-24-6 CAPLUS
CN Cyanamide, [3-[[2,6-dichloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-

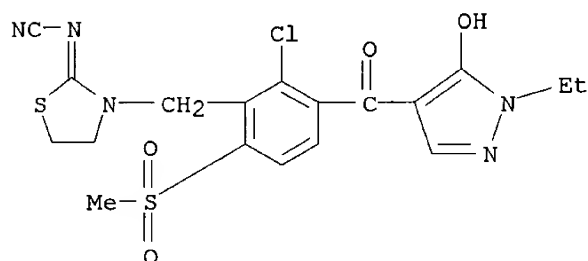
yl)carbonyl]phenyl)methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



RN 395069-26-8 CAPLUS

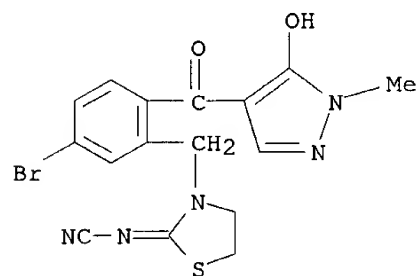
CN Cyanamide,

[3-[[2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)phenyl)methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



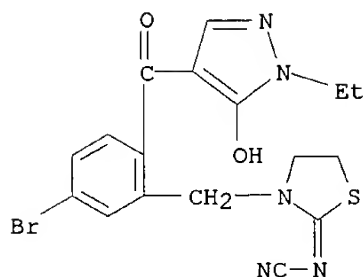
RN 395069-35-9 CAPLUS

CN Cyanamide, [3-[[5-bromo-2-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]phenyl)methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



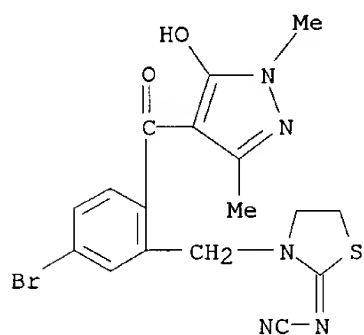
RN 395069-36-0 CAPLUS

CN Cyanamide, [3-[[5-bromo-2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl)methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



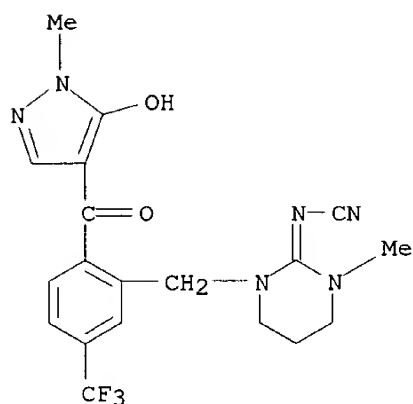
RN 395069-37-1 CAPLUS

CN Cyanamide, [3-[[5-bromo-2-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



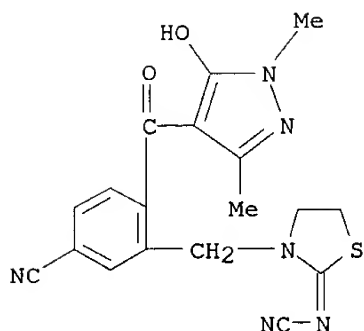
RN 395069-38-2 CAPLUS

CN Cyanamide, [tetrahydro-1-[[2-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-5-(trifluoromethyl)phenyl]methyl]-3-methyl-2(1H)-pyrimidinylidene]- (9CI) (CA INDEX NAME)



RN 395069-41-7 CAPLUS

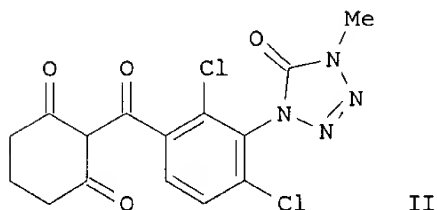
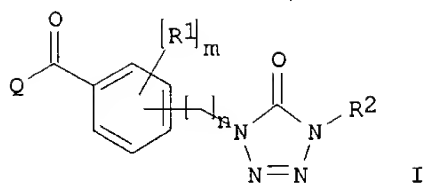
CN Cyanamide, [3-[[5-cyano-2-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L12 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:115133 CAPLUS
DOCUMENT NUMBER: 134:163041
TITLE: Preparation of herbicidal tetrazolinones
INVENTOR(S): Yanagi, Akihiko; Narabu, Shinichi; Goto, Toshio; Ito, Seishi; Ueno, Chieko
PATENT ASSIGNEE(S): Nihon Bayer Agrochem K.K., Japan
SOURCE: PCT Int. Appl., 115 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|-------------------|-----------------|------------|
| WO 2001010850 | A1 | 20010215 | WO 2000-IB1064 | 20000728 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| BR 2000013075 | A | 20020521 | BR 2000-13075 | 20000728 |
| EP 1208090 | A1 | 20020529 | EP 2000-944182 | 20000728 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL | | | | |
| JP 2003506443 | T2 | 20030218 | JP 2001-515316 | 20000728 |
| JP 2001114769 | A2 | 20010424 | JP 2000-231450 | 20000731 |
| PRIORITY APPLN. INFO.: | | | JP 1999-226845 | A 19990810 |
| | | | WO 2000-IB1064 | W 20000728 |
| OTHER SOURCE(S): | | MARPAT 134:163041 | | |
| GI | | | | |



AB The title compds. [I; R1 = halo, alkyl, haloalkyl, etc.; R2 = H, alkyl, (un)substituted cycloalkyl, etc.; m = 0-2; n = 0-1; Q = (un)substituted 1,3-dioxo-2-cyclohexanyl, 5-hydroxy-4-pyrazolyl, 4-isoxazolyl, etc.], useful as herbicides, were prepd. Thus, treatment of

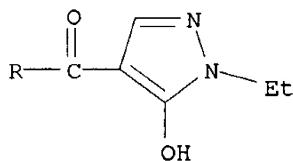
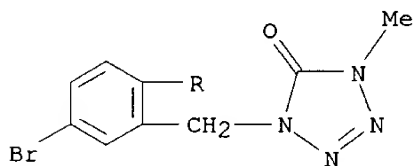
2,4-dichloro-3-(4,5-dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)benzoic acid with SOCl2 followed by reaction of the resulting acid chloride with 1,3-cyclohexanedione afforded 51% II which showed more than 90% of herbicidal activity against barnyardgrass, foxtail, common amaranth and knotweed at 2.0 kg/ha.

IT 325459-96-9P 325460-11-5P 325460-19-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of herbicidal tetrazolinones)

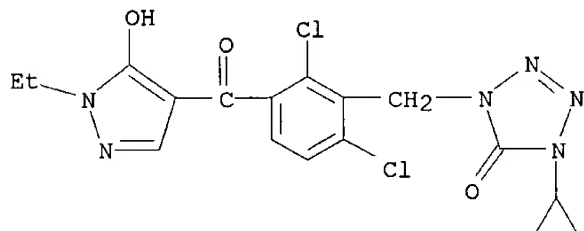
RN 325459-96-9 CAPLUS

CN 5H-Tetrazol-5-one, 1-[[5-bromo-2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-1,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)

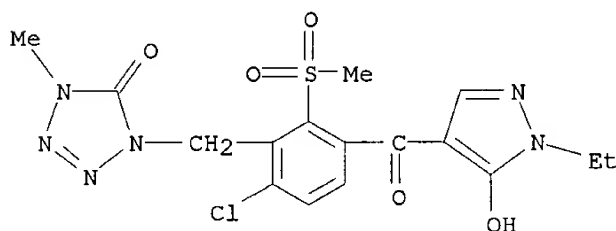


RN 325460-11-5 CAPLUS

CN 5H-Tetrazol-5-one,
1-cyclopropyl-4-[[2,6-dichloro-3-[(1-ethyl-5-hydroxy-1H-
pyrazol-4-yl)carbonyl]phenyl)methyl]-1,4-dihydro- (9CI) (CA INDEX NAME)



RN 325460-19-3 CAPLUS
CN 5H-Tetrazol-5-one, 1-[[6-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-
yl)carbonyl]-2-(methylsulfonyl)phenyl)methyl]-1,4-dihydro-4-methyl- (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR
THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L12 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:50625 CAPLUS

DOCUMENT NUMBER: 134:100866

TITLE: Preparation of N-alkyl-3-alkenylbenzoylpyrazoles as
herbicides.

INVENTOR(S): Neidlein, Ulf; Gotz, Norbert; Baumann, Ernest; Von
Deyn, Wolfgang; Kudis, Steffen; Gotz, Roland;
Langemann, Klaus; Mayer, Guido; Misslitz, Ulf;
Witschel, Matthias; Otten, Martina; Westphalen,
Karl-Otto; Walter, Helmut

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany; Von Deyn, Wolfgang
SOURCE: PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

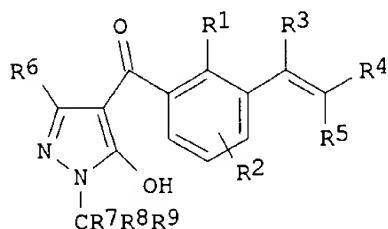
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

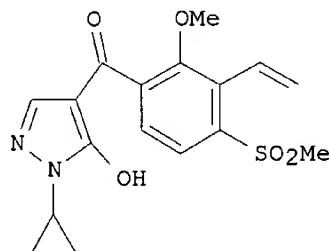
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2001004095 | A2 | 20010118 | WO 2000-EP5857 | 20000623 |

WO 2001004095 A3 20010426
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
BR 2000012285 A 20020326 BR 2000-12285 20000623
EP 1194408 A2 20020410 EP 2000-942128 20000623
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO
JP 2003504355 T2 20030204 JP 2001-509706 20000623
PRIORITY APPLN. INFO.: DE 1999-19931881 A 19990709
WO 2000-EP5857 W 20000623
OTHER SOURCE(S): MARPAT 134:100866
GI



I



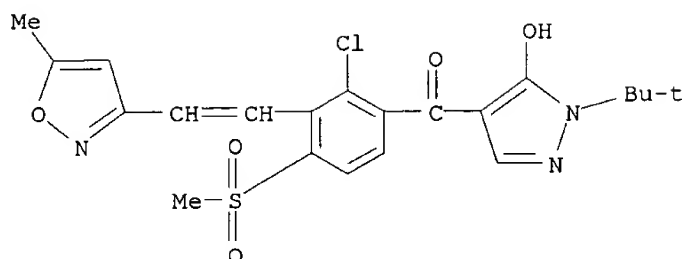
II

AB Title compds. [I; R1 = H, NO2, halo, cyano, rhodano, alkyl, alkoxy, haloalkyl, alkylthio, alkenyl, alkynyl; R2 = SOnR10, SO2OR11, NR12SO2R13, etc.; R3 = H, halo, alkyl, haloalkyl, alkoxy, alkenyl, alkynyl; R4, R5 = H, NO2, halo, cyano, rhodano, alkyl, haloalkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, alkylthio, haloalkoxy, etc.; R6 = H, halo, alkyl, alkoxy, cycloalkyl; R7, R8, R9 = H, alkyl, haloalkyl, cyanoalkyl; n = 0-2; R10 = alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R11 = H, alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R12 = H, alkyl; R13 = alkyl, haloalkyl], were prepd. Thus, title compd. (II) at 0.125 kg/ha postemergent gave complete control of lambsquarters and ladythumb.

IT **319906-64-4P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of N-alkyl-3-alkenylbenzoylpyrazoles as herbicides)

RN 319906-64-4 CAPLUS

CN Methanone, [2-chloro-3-[2-(5-methyl-3-isoxazolyl)ethenyl]-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)



L12 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:614080 CAPLUS

DOCUMENT NUMBER: 133:304904

TITLE: Coordination number incommensurate cluster formation, part 14. Lord of the rings: an octameric lanthanum pyrazolonate cluster

AUTHOR(S): Xu, Jide; Raymond, Kenneth N.

CORPORATE SOURCE: Department of Chemistry, University of California, Berkeley, CA, 94720, USA

SOURCE: Angewandte Chemie, International Edition (2000), 39(15), 2745-2747

CODEN: ACIEF5; ISSN: 1433-7851

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 4-(1,3,5-Benzenetricarbonyl)tris(3-methyl-1-phenyl-2-pyrazolin-5-one) (H3L) was prepd. from 3-methyl-1-phenyl-2-pyrazolin-5-one and 1,3,5-benzenetricarbonyl trichloride and reacted with La(acac)3 to give [La8L8(DMSO)3]. The crystal structure of [La8L8.9.3MeOH.10.7DMSO.4H2O].20

MeOH.12H2O.x(solvent) was detd.: tetragonal, space group P4/n, Z = 2, R1

=

0.1274, wr2 = 0.248. This complex has a unique square antiprismatic, 3-dimensional ring structure [La8L8]. Each La atom is coordinated by 3 L and each ligand coordinates to 3 La atoms. In this cluster nine-coordinate La atoms are linked by 6-coordinate chelate ligands. The residual coordination sites of the La atoms are occupied by solvent mols.

IT 250773-77-4P

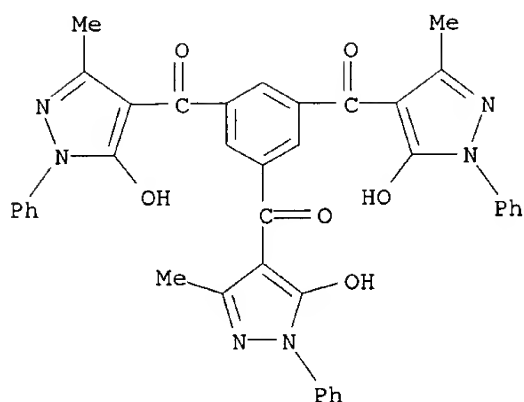
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and complexation with lanthanum)

RN 250773-77-4 CAPLUS

CN Methanone,

1,3,5-benzenetriyltris[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR
THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L12 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:676247 CAPLUS

DOCUMENT NUMBER: 132:8465

TITLE: Coordination number incommensurate cluster formation,
part 12. Self-assembly of a three-dimensional
[Ga₆(L₂)₆] metal-ligand "cylinder"

AUTHOR(S): Johnson, Darren W.; Xu, Jide; Saalfrank, Rolf W.;
Raymond, Kenneth N.

CORPORATE SOURCE: Department of Chemistry, University of California,
Berkeley, CA, 94720, USA

SOURCE: Angewandte Chemie, International Edition (1999),
38(19), 2882-2885

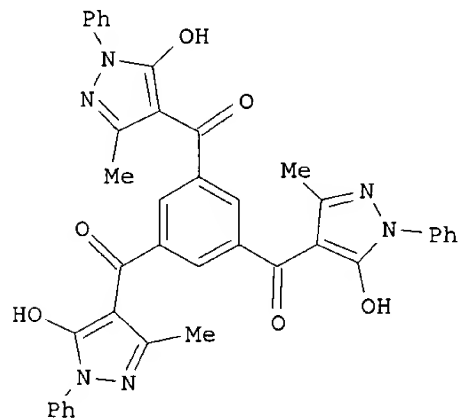
CODEN: ACIEF5; ISSN: 1433-7851

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB The 3-fold sym., tris-.beta.-diketonate ligand I (H3L2) reacts with Ga(acac)3 (acac = acetylacetonate) in DMSO at 90.degree. to afford [Ga6(L2)6], a "cylinder" cluster having idealized D3 symmetry. A crystal structure study of the new cluster geometry shows Ga atoms define a distorted trigonal antiprism in which six ligands make up the equatorial faces of the cylinder with a hole at the top and the bottom. The mol. exists as a racemic mixt. of homochiral, hexanuclear clusters (.DELTA..DELTA..DELTA..DELTA..DELTA..DELTA. or .LAMBDA..LAMBDA..LAMBDA..LAMBDA..LAMBDA..LAMBDA.) in the solid state and in soln. The complicated 1H and 13C NMR spectra of [Ga6(L2)6] are discussed.

IT 250773-77-4P

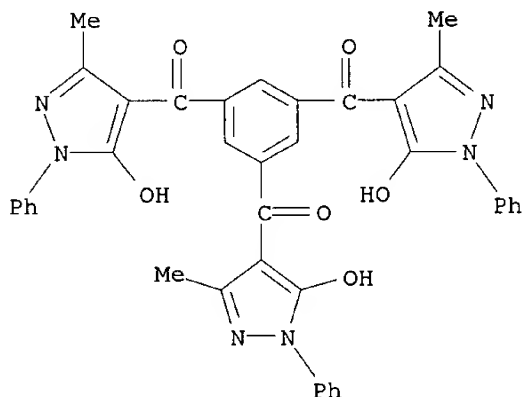
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and complexation with gallium(III) to give hexanuclear cylinder cluster)

RN 250773-77-4 CAPLUS

CN Methanone,

1,3,5-benzenetriyltris[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L12 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:126893 CAPLUS

DOCUMENT NUMBER: 130:168367

TITLE: Preparation of 4-benzoylpyrazoles as herbicides

INVENTOR(S): Engel, Stefan; Rheinheimer, Joachim; Baumann, Ernst; Von Deyn, Wolfgang; Hill, Regina Luise; Mayer, Guido; Misslitz, Ulf; Wagner, Oliver; Witschel, Matthias; Otten, Martina; Walter, Helmut; Westphalen, Karl-Otto

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany

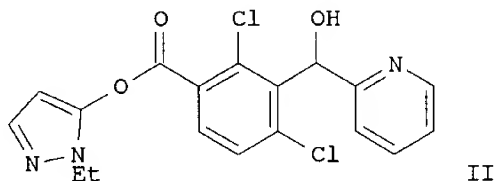
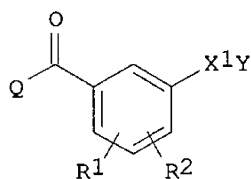
SOURCE: PCT Int. Appl., 99 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|--------------------|----------|
| WO 9907697 | A1 | 19990218 | WO 1998-EP4481 | 19980720 |
| W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| AU 9890665 | A1 | 19990301 | AU 1998-90665 | 19980720 |
| EP 1003736 | A1 | 20000531 | EP 1998-942572 | 19980720 |
| R: CH, DE, FR, GB, LI | | | | |
| JP 2001512726 | T2 | 20010828 | JP 2000-506201 | 19980720 |
| ZA 9807055 | A | 20000207 | ZA 1998-7055 | 19980806 |
| US 6156702 | A | 20001205 | US 2000-485232 | 20000207 |
| PRIORITY APPLN. INFO.: | | | DE 1997-19734186 A | 19970807 |
| | | | WO 1998-EP4481 W | 19980720 |
| OTHER SOURCE(S): | | | MARPAT 130:168367 | |
| GI | | | | |

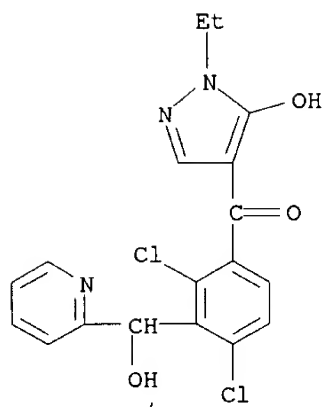


AB Title compds. [I; R1, R2 = H, SH, NO2, halo, cyano, rhodano, alkyl, haloalkyl, alkoxy, alkenyl, alkynyl, OR3, O2CR3, OSO2R3, NR3SO3R3, etc.; R3 = H, (substituted) alkyl, haloalkyl, alkenyl, alkynyl, Ph, phenylalkyl;
 Q = specified pyrazolyl residue; X1 = (substituted) alkylene, alkenylene, alkynylene; Y = 3-6 membered (substituted) heteroaryl, (satd.) heterocyclyl], were prepd. as herbicides (no data). Thus, 2,4-dichloro-3-[(2-pyridyl)(hydroxymethyl)]benzoic acid (prepn. given), 1-ethyl-5-hydroxypyrazole, and DCC were stirred in MeCN to give title compd. (II).

IT 220282-95-1P 220282-96-2P 220282-97-3P
 220282-98-4P 220282-99-5P 220283-00-1P
 220283-01-2P 220283-02-3P 220283-03-4P
 220283-04-5P 220283-05-6P 220283-06-7P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 4-benzoylpyrazoles as herbicides)

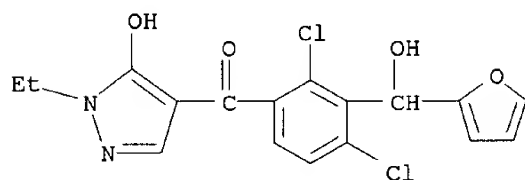
RN 220282-95-1 CAPLUS

CN Methanone, [2,4-dichloro-3-(hydroxy-2-pyridinylmethyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



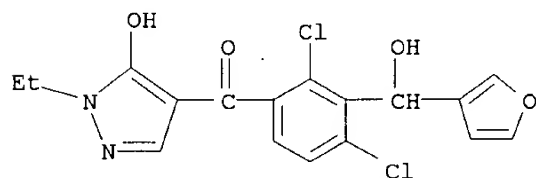
RN 220282-96-2 CAPLUS

CN Methanone, [2,4-dichloro-3-(2-furanylhydroxymethyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



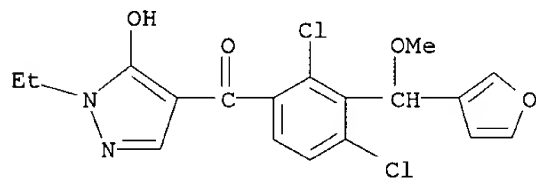
RN 220282-97-3 CAPLUS

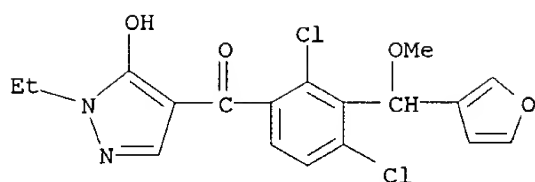
CN Methanone, [2,4-dichloro-3-(3-furanylhydroxymethyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 220282-98-4 CAPLUS

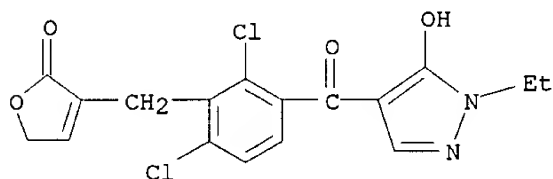
CN Methanone, [2,4-dichloro-3-(3-furanylmethoxymethyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)





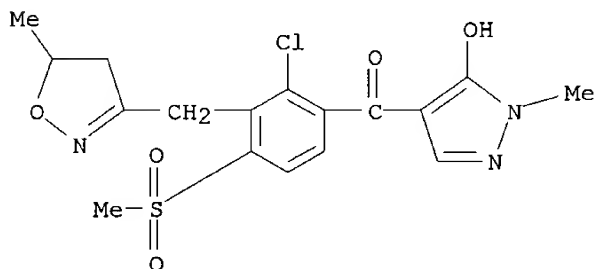
RN 220282-99-5 CAPLUS

CN 2(5H)-Furanone, 3-[[2,6-dichloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]- (9CI) (CA INDEX NAME)



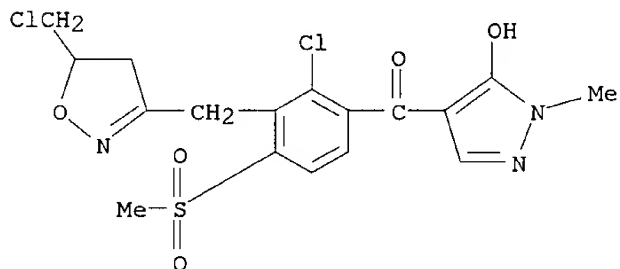
RN 220283-00-1 CAPLUS

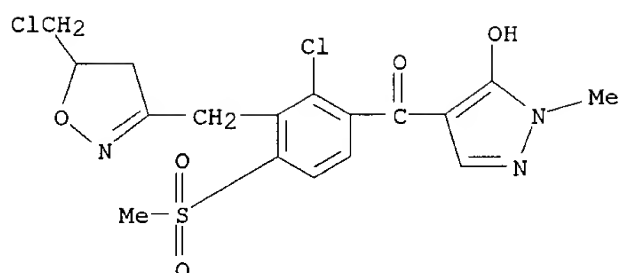
CN Methanone, [2-chloro-3-[(4,5-dihydro-5-methyl-3-isoxazolyl)methyl]-4-(methylsulfonyl)phenyl] (5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 220283-01-2 CAPLUS

CN Methanone, [2-chloro-3-[[5-(chloromethyl)-4,5-dihydro-3-isoxazolyl]methyl]-4-(methylsulfonyl)phenyl] (5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)

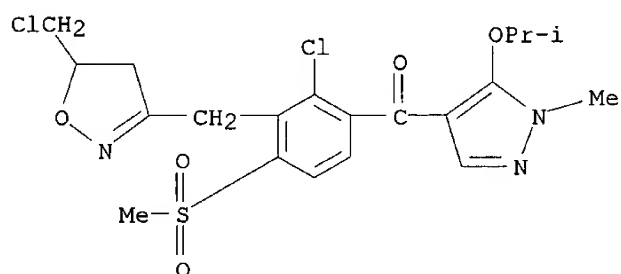




RN 220283-02-3 CAPLUS

CN Methanone,

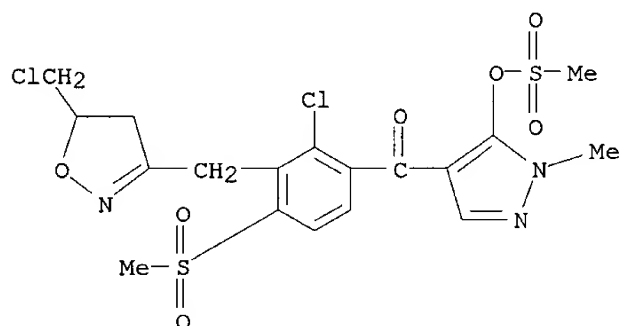
[2-chloro-3-[[5-(chloromethyl)-4,5-dihydro-3-isoxazolyl]methyl]-
4-(methylsulfonyl)phenyl][1-methyl-5-(1-methylethoxy)-1H-pyrazol-4-yl]-
(9CI) (CA INDEX NAME)



RN 220283-03-4 CAPLUS

CN Methanone,

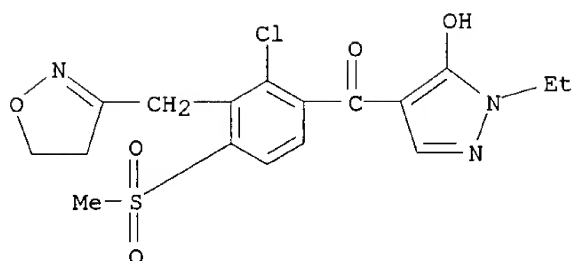
[2-chloro-3-[[5-(chloromethyl)-4,5-dihydro-3-isoxazolyl]methyl]-
4-(methylsulfonyl)phenyl][1-methyl-5-[(methylsulfonyl)oxy]-1H-pyrazol-4-
yl]- (9CI) (CA INDEX NAME)



RN 220283-04-5 CAPLUS

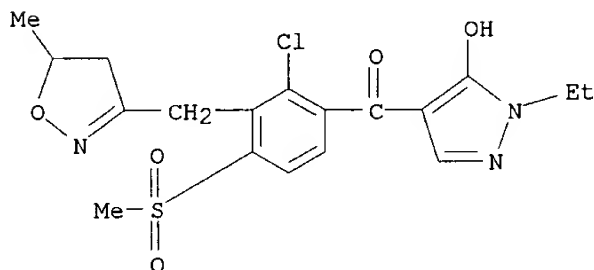
CN Methanone, [2-chloro-3-[(4,5-dihydro-3-isoxazolyl)methyl]-4-

(methylsulfonyl)phenyl][1-ethyl-5-hydroxy-1H-pyrazol-4-yl]- (9CI) (CA
INDEX NAME)



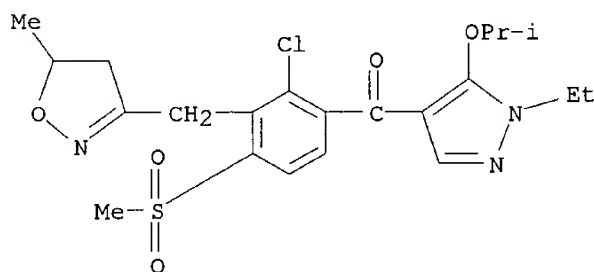
RN 220283-05-6 CAPLUS

CN Methanone, [2-chloro-3-[(4,5-dihydro-5-methyl-3-isoxazolyl)methyl]-4-(methylsulfonyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 220283-06-7 CAPLUS

CN Methanone, [2-chloro-3-[(4,5-dihydro-5-methyl-3-isoxazolyl)methyl]-4-(methylsulfonyl)phenyl] [1-ethyl-5-(1-methylethoxy)-1H-pyrazol-4-yl]- (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L12 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:745038 CAPLUS

DOCUMENT NUMBER: 129:343490

TITLE: Preparation of 4-(3-alkenylbenzoyl)pyrazoles as herbicides.

INVENTOR(S): Baumann, Ernst; Von Deyn, Wolfgang; Engel, Stefan;
Hill, Regina Luise; Kardorff, Uwe; Mayer, Guido;
Otten, Martina; Rack, Michael; Rheinheimer, Joachim;
Witschel, Matthias; Westphalen, Karl-otto; Missblitz,
Ulf; Walter, Helmut

PATENT ASSIGNEE(S): Basf A.-G., Germany; et al.

SOURCE: PCT Int. Appl., 294 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

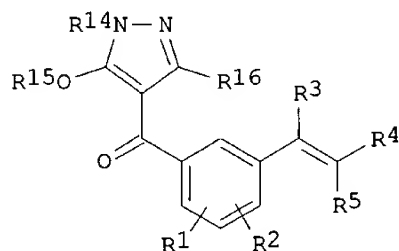
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

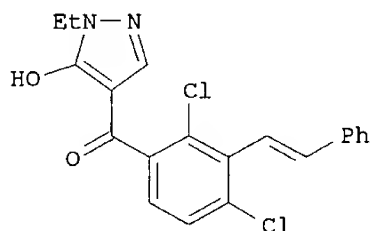
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|-------------------|--------------------|----------|
| WO 9850366 | A1 | 19981112 | WO 1998-EP2433 | 19980505 |
| W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| AU 9876479 | A1 | 19981127 | AU 1998-76479 | 19980505 |
| AU 749055 | B2 | 20020620 | | |
| EP 984944 | A1 | 20000315 | EP 1998-924195 | 19980505 |
| R: AT, BE, CH, DE, ES, FR, GB, LI, PT | | | | |
| BR 9809788 | A | 20000620 | BR 1998-9788 | 19980505 |
| JP 2001527548 | T2 | 20011225 | JP 1998-547674 | 19980505 |
| ZA 9803797 | A | 19991117 | ZA 1998-3797 | 19980506 |
| MX 9909698 | A | 20000430 | MX 1999-9698 | 19991022 |
| US 6143696 | A | 20001107 | US 1999-423077 | 19991122 |
| PRIORITY APPLN. INFO.: | | | DE 1997-19726710 A | 19970507 |
| | | | WO 1998-EP2433 W | 19980505 |
| OTHER SOURCE(S): | | MARPAT 129:343490 | | |

GI



I



II

AB Title compds. [I; R1, R2 = H, NO2, halo, cyano, rhodano, (halo)alkyl, alkoxyalkyl, alkenyl, alkynyl, OR6, OCOR7, OSO2R7, SH, S(O)nR8, SO2OR6, SO2NR6R9, NR9SO2R7, NR9COR7; n = 0-2; R3 = H, halo, (halo)alkyl, alkoxy, alkynyl, alkynyl; R4, R5 = H, NO2, halo, cyano, rhodano, (halo)alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, alkythio, haloalkoxy, COR10, CO2R10, COSR10, CONR10R11, C(R12):NR13, PO(OR10)(OR11), (substituted) alkyl, heterocyclyl(alkyl), Ph, phenylalkyl, heteroaryl(alkyl); R4R5C = (substituted and/or heteroatom-interrupted) alkylene; R6 = H, (halo)alkyl,

alkoxyalkyl, alkenyl, alkynyl; R7 = (halo)alkyl; R8 = (halo)alkyl, alkoxyalkyl, alkenyl, alkynyl; R9 = H, alkyl; R10 = H, cycloalkyl, (halo)alkyl, alkenyl, alkynyl, (substituted) Ph, PhCH2; R11 = H, alkyl, alkenyl, alkynyl; R10R11 = (substituted and/or heteroatom-interrupted) alkylene; R12 = H, (halo)alkyl, alkoxy, alkoxycarbonyl, cycloalkyl, alkenyl, alkynyl, (substituted) Ph, PhCH2; R13 = (halo)alkyl, cycloalkyl, alkenyl, alkynyl, (halo)alkoxy, cycloalkoxy, alkenyloxy, Ph, PhCH2; R14 = (halo)alkyl, (substituted) Ph, PhCH2; R15 = H, (halo)alkyl, (halo) alkylcarbonyl, alkoxycarbonyl, (halo)alkylsulfonyl, (substituted) phenylalkyl, PhCO, PhCOCH2, PhO2C, PhSO2; R16 = H, (halo)alkyl], were prepd. Title compd. (II) at 0.25-0.5 kg/ha postemergent was said to give very good herbicidal activity while leaving summer wheat undamaged.

IT 215363-74-9P 215363-75-0P 215363-76-1P

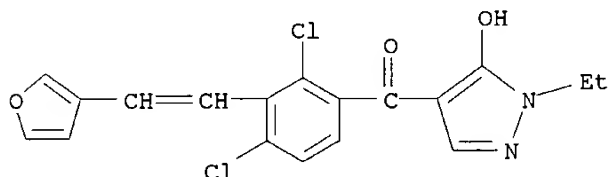
215363-78-3P 215363-88-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 4-(3-alkenylbenzoyl)pyrazoles as herbicides)

RN 215363-74-9 CAPLUS

CN Methanone,

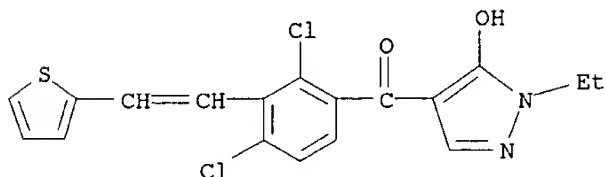
[2,4-dichloro-3-[2-(3-furanyl)ethenyl]phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 215363-75-0 CAPLUS

CN Methanone,

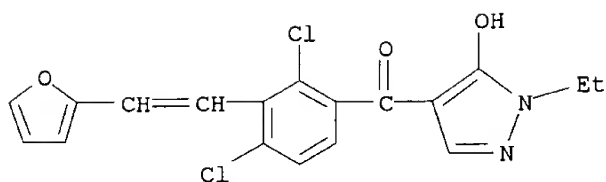
[2,4-dichloro-3-[2-(2-thienyl)ethenyl]phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 215363-76-1 CAPLUS

CN Methanone,

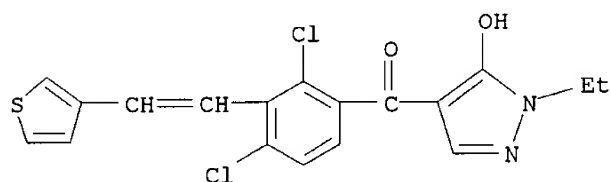
[2,4-dichloro-3-[2-(2-furanyl)ethenyl]phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 215363-78-3 CAPLUS

CN Methanone,

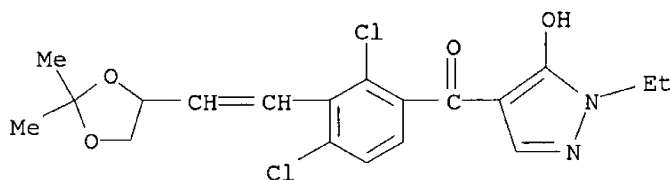
[2,4-dichloro-3-[2-(3-thienyl)ethenyl]phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 215363-88-5 CAPLUS

CN Methanone, [2,4-dichloro-3-[2-(2,2-dimethyl-1,3-dioxolan-4-

yl)ethenyl]phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L12 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:128298 CAPLUS

DOCUMENT NUMBER: 126:283263

TITLE: Extraction of copper with 1,3-bis(1'-phenyl-3'-methyl-

5'-hydroxypyrazol-4'-oyl)benzene and with some .alpha.,.omega.-bis(1'-phenyl-3'-methyl-5'-hydroxypyrazol-4'-oyl)alkanes in chloroform

AUTHOR(S):

Guiguemde, I.; Diantouba, B. A.; Lakkis, D.; Goetz-Grandmont, G. J.; Brunette, J. P.

CORPORATE SOURCE:

Lab. Chimie Analytique Minerale, ECPMS, Strasbourg, 67008, Fr.

SOURCE:

Analisis (1996), 24(8), 318-324
CODEN: ANLSCY; ISSN: 0365-4877

PUBLISHER:

Elsevier

DOCUMENT TYPE: Journal
LANGUAGE: English
AB The extn. of copper with the new extractant
1,3-bis(1'-phenyl-3'-methyl-5'-

hydroxypyrazol-4'-oyl)benzene, 'HL-mPh-LH', has been studied and compared to its extn. with the linear chain analogs, the .alpha.,.omega.-bis(1'-phenyl-3'-methyl-5'-hydroxypyrazol-4'-oyl-)alkanes, 'HL-n-LH' (n, no. of methylene links). HL-mPh-LH is less lipophilic and more acidic than HL-n-LH. It appears under a keto-enol or diketo-amine tautomeric form in methanol and under an intramolecularly H-bonded chelated form in chloroform. Both forms are obsd. in the solid state. Copper is extd. in chloroform as Cu(L-mPh-LH)₂, Cu₂(L-mPh-L)₂, Cu₂(L-7-L)₂ and Cu(L-n-L),

for n .gtoreq. 8, although third-phase formation and loss of copper hinder the extn. with HL-4-LH. 1,2-Dichloroethane is a more efficient diluent than chloroform. The special advantage of HL-mPh-LH is to reduce the main drawback obsd. with those extractants, i.e., third-phase formation.

IT 122993-33-3P

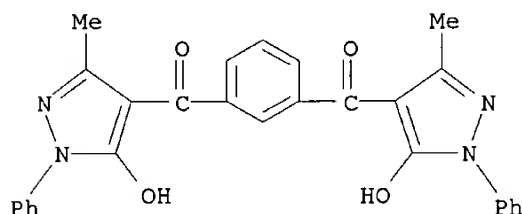
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)

(extn. of copper with bis(phenylmethylhydroxypyrazolone)benzene and with bis(phenylmethylhydroxypyrazolone)alkanes in chloroform)

RN 122993-33-3 CAPLUS

CN Methanone,

1,3-phenylenebis[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)-
(9CI) (CA INDEX NAME)



L12 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:177 CAPLUS

DOCUMENT NUMBER: 114:177

TITLE: Antiviral activity of certain acylpyrazolones

AUTHOR(S): Galabov, A.; Terebenina, A.; Dimitrova, K.; Todorova, O.; Karparov, A.; Borisov, G.

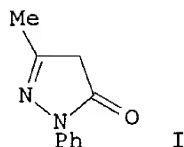
CORPORATE SOURCE: Inst. Microbiol., Sofia, Bulg.

SOURCE: Doklady Bolgarskoi Akademii Nauk (1990), 43(5), 61-4
CODEN: DBANAD; ISSN: 0366-8681

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB This study examd. the antiviral activity of some derivs. of 3-methyl-1-phenyl-pyrazolone-5 (MPP-5, I) as well as their complexes with copper, zinc, iron and manganese. The results show that almost always active are the 4-substituted acyclic derivs., giving chelated complexes with a lot of metals. This allows the assumption that the biol. activity is related to transfer of metals.

IT **112525-82-3**

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological

study, unclassified); THU (Therapeutic use); BIOL (Biological study);

USES

(Uses)

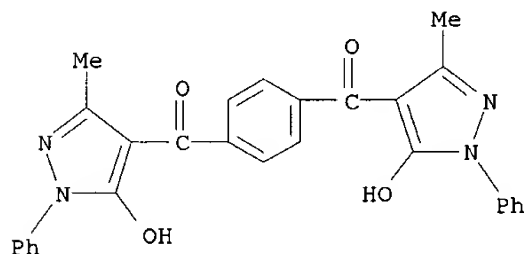
(antiviral activity of, structure in relation to)

RN 112525-82-3 CAPLUS

CN Methanone,

1,4-phenylenebis[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)-

(9CI) (CA INDEX NAME)



L12 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:98519 CAPLUS

DOCUMENT NUMBER: 112:98519

TITLE: Preparation of benzoylpyrazoles as herbicides

INVENTOR(S): Baba, Masatoshi; Kakuta, Takuya; Tanaka, Norio; Oya, Eiichi; Ikai, Takashi; Nawamaki, Tsutomu; Watanabe, Shigeomi

PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan; CG

SOURCE: Eur. Pat. Appl., 305 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| EP 282944 | A2 | 19880921 | EP 1988-103999 | 19880314 |
| EP 282944 | A3 | 19911009 | | |

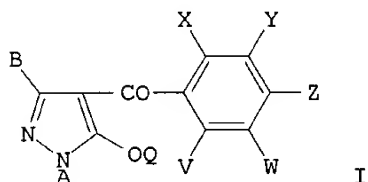
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| EP 282944 | B1 | 19960911 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| US 4885022 | A | 19891205 | US 1987-122366 | 19871118 |
| IL 85659 | A1 | 19920329 | IL 1988-85659 | 19880307 |
| AU 8813099 | A1 | 19880915 | AU 1988-13099 | 19880311 |
| AU 599468 | B2 | 19900719 | | |
| US 4948887 | A | 19900814 | US 1988-168139 | 19880314 |
| CA 1328260 | A1 | 19940405 | CA 1988-561419 | 19880314 |
| AT 142624 | E | 19960915 | AT 1988-103999 | 19880314 |
| ES 2094719 | T3 | 19970201 | ES 1988-103999 | 19880314 |
| HU 45847 | A2 | 19880928 | HU 1988-1213 | 19880315 |
| HU 204513 | B | 19920128 | | |
| JP 02000173 | A2 | 19900105 | JP 1988-61349 | 19880315 |
| JP 2725274 | B2 | 19980311 | | |
| CN 88101455 | A | 19880928 | CN 1988-101455 | 19880316 |
| CN 1023011 | B | 19931208 | | |
| ZA 8801873 | A | 19891129 | ZA 1988-1873 | 19880316 |
| RO 100305 | B1 | 19920608 | RO 1988-132602 | 19880316 |
| RO 105806 | B1 | 19921230 | RO 1988-143594 | 19880316 |
| SU 1836018 | A3 | 19930823 | SU 1988-4355524 | 19880316 |
| DK 8801464 | A | 19880918 | DK 1988-1464 | 19880317 |
| DK 170668 | B1 | 19951127 | | |
| BR 8801218 | A | 19881025 | BR 1988-1218 | 19880317 |
| US 5175299 | A | 19921229 | US 1991-785241 | 19911101 |
| RU 2055836 | C1 | 19960310 | RU 1992-5011738 | 19920521 |
| JP 10095702 | A2 | 19980414 | JP 1997-211488 | 19970806 |
| JP 2943778 | B2 | 19990830 | | |
| JP 11171828 | A2 | 19990629 | JP 1998-248300 | 19980902 |
| JP 3008398 | B2 | 20000214 | | |

PRIORITY APPLN. INFO.:

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| JP 1987-61937 | A | 19870317 |
| JP 1987-179797 | A | 19870717 |
| JP 1987-247601 | A | 19870930 |
| JP 1988-5449 | A | 19880113 |
| US 1987-122366 | B2 | 19871118 |
| EP 1988-103999 | | 19880314 |
| US 1988-168139 | A3 | 19880314 |
| JP 1988-61349 | A3 | 19880315 |
| JP 1997-211488 | A3 | 19880315 |
| US 1990-504311 | B3 | 19900404 |

OTHER SOURCE(S): MARPAT 112:98519

GI



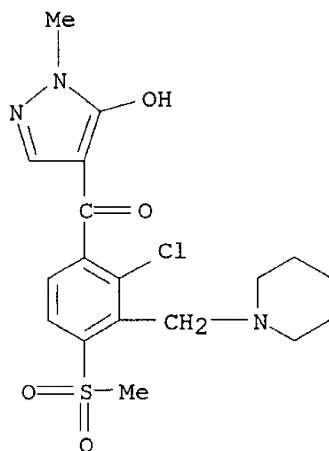
AB Title compds. I [A = C1-3 alkyl, C2-4 alkenyl, C2-4 alkynyl; B = H, C1-3 alkyl, halo, halo-C1-3 alkyl, C1-3 alkoxy, C1-3 alkylthio, C2-4 alkoxyalkyl, C2-4 alkylthioalkyl, C2-4 alkoxycarbonyl; X = C1-6 alkyl, C1-6 alkoxy, C2-6 alkoxyalkyl, halo, O2N, cyano, halo-C1-6 alkyl, etc.; Y = R1O2C, R1 = H, C1-6 alkyl, C3-8 cycloalkyl, C3-8 alkynyl, C2-6 alkenyl,

etc.; Z = halo, O₂N, C1-3 alkoxy, F₃C, cyano, C1-4 alkylthio, etc.; V = H, halo, C1-4 alkyl, C1-4 alkoxy; W = H, halo, C1-4 alkyl, halo-C1-4 alkyl, C1-4 alkoxy, C2-6 alkoxyalkyl, O₂N, cyano, C1-4 alkylthio, etc.; Q = H, (un)substituted C1-6 alkyl, (un)substituted C1-6 alkenyl, NCCH₂, (un)substituted Bz, C1-6 alkynyl, etc.] and a salt thereof, are prepd. 2,3,4-Me(MeOCH₂)(MeSO₂)C₆H₂CO₂H, 1-ethyl-5-hydroxypyrazole, DCC, and anhydr. K₂CO₃ were sequentially reacted at 80-90.degree. to give I (A = Et; B = Q = V = W = H; X = Me; Y = MeOCH₂; Z = MeSO₂) (II) in 66% yield. In soil and foliage treatment II, at 0.5 g/are, gave >90 control of such weeds as *Echinochloa crus-gali*, *Setaria viridis*, *Eleusine indica*, *Digitaria adscendens*, etc., without damage to corn.

IT **120101-18-0P**
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)

RN 120101-18-0 CAPLUS

CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(1-piperidinylmethyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



L12 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1989:553690 CAPLUS

DOCUMENT NUMBER: 111:153690

TITLE: Interaction of 3-methyl-1-phenyl-5-pyrazolone with isophthaloyl and phthaloyl chloride

AUTHOR(S): Terebenina, A.; Dimitrova, K.; Borisov, G.

CORPORATE SOURCE: Inst. Gen. Inorg. Chem., Sofia, 1040, Bulg.

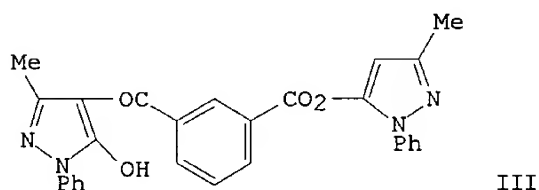
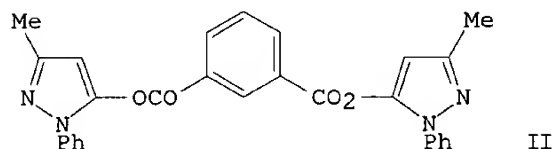
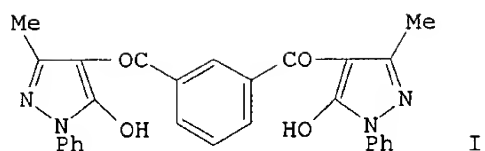
SOURCE: Izvestiya po Khimiya (1988), 21(1), 3-8
 CODEN: IZKHDX; ISSN: 0324-0401

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 111:153690

GI



AB The products of the title reactions depend on the reaction conditions. Thus, reaction of the pyrazolone with isophthaloyl chloride in pyridine contg. CaO gave 73% 4,4'-linked product (I), whereas the reaction in petroleum ether-benzene gave 80% 5,5'-linked product (II) and the reaction

in THF contg. CaO gave 57% 4,5'-linked product (III).

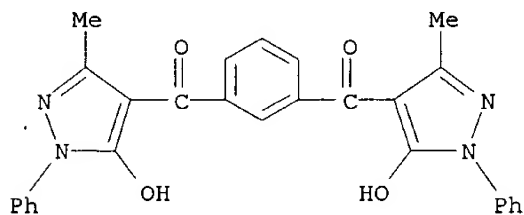
IT **122993-33-3P 122993-39-9P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 122993-33-3 CAPLUS

CN Methanone,

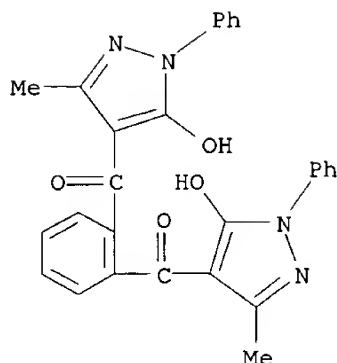
1,3-phenylenebis[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)-
(9CI) (CA INDEX NAME)]



RN 122993-39-9 CAPLUS

CN Methanone,

1,2-phenylenebis[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)-
(9CI) (CA INDEX NAME)]



L12 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1988:59051 CAPLUS

DOCUMENT NUMBER: 108:59051

TITLE: Metal-deactivating properties of some derivatives of 1-phenyl-3-methyl-5-pyrazolone in oxidation processes
AUTHOR(S): Tanielyan, S.; Terebenina, A.; Ivanov, S.; Dimitrova, K.; Boneva, M.; Todorova, O.; Borisov, G.; Iordanov, N.

CORPORATE SOURCE: Inst. Org. Chem., Sofia, 1040, Bulg.

SOURCE: Izvestiya po Khimiya (1987), 20(3), 344-48

CODEN: IZKHDX; ISSN: 0324-0401

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Five derivs. of 1-phenyl-3-methyl-5-pyrazolone were studied as Cu²⁺ deactivators for gasoline. Two of these compds. increased the induction time of gasoline oxidn. (at 393K and 1 MPa O) in the presence of Cu²⁺ from 40 to 152-215 min, which was comparable to that for Ionol. Cu complexes with all these derivs. were strong oxidn. initiators.

IT 112525-82-3

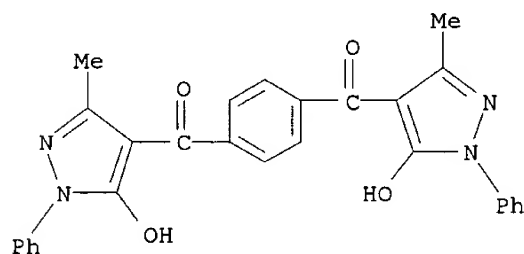
RL: USES (Uses)

(gasoline copper deactivator)

RN 112525-82-3 CAPLUS

CN Methanone,

1,4-phenylenebis[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)-
(9CI) (CA INDEX NAME)

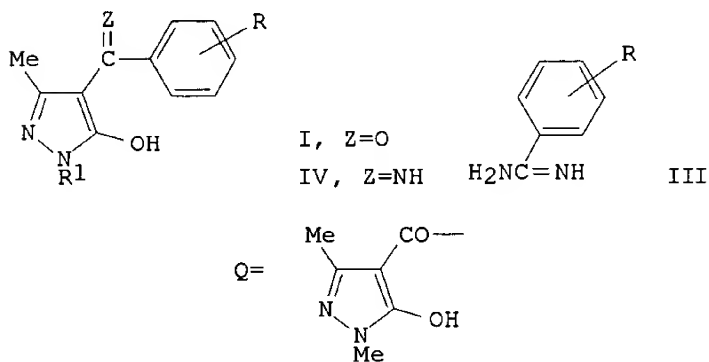


L12 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1977:423270 CAPLUS

DOCUMENT NUMBER: 87:23270
 TITLE: 4-Benzoylpyrazole derivatives
 INVENTOR(S): Jojima, Teruomi; Takeshiba, Hideo; Tomita, Kazuo;
 Konotsune, Takuo
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------|------|----------|-----------------|----------|
| JP 51146464 | A2 | 19761216 | JP 1975-68814 | 19750607 |
| JP 59024146 | B4 | 19840607 | | |
| PRIORITY APPLN. INFO.: GI | | | JP 1975-68814 | 19750607 |



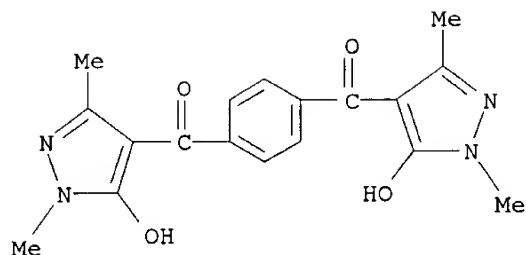
AB Herbicidal (no data) 4-benzoyl-5-hydroxypyrazole derivs. I (R,R1 = 2,4-Cl₂, Me (II); 2,4-Cl₂, CH₂CO₂Et; 4-NO₂, Me; 2,4-Cl₂, allyl) were prepd. by reaction of hydroxymethylpyrazoles with benzamidine derivs. III followed by hydrolysis of the resulting imidoyl derivs. IV. Analogously, 4-QC₆H₄Q were prepd. by reaction of hydroxypyrazoles with terephthalamidine followed by hydrolysis. Thus, a mixt. of 11.2 g 1,3-dimethyl-5-hydroxypyrazole and 24.7 g 2,4-dichlorobenzamidine in xylene was refluxed 4 h to give 77% 1,3-dimethyl-4-(2,4-dichlorobenzimidoyl)-5-hydroxypyrazole, which (5 g) was refluxed in 5%

aq. NaOH 3 h to give 4.2 g II.

IT **63124-50-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 63124-50-5 CAPLUS

CN Methanone, 1,4-phenylenebis[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)-
 (9CI) (CA INDEX NAME)



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FULL ESTIMATED COST

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Mar 31, 2003 (20030331/UP).

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| NEWS | 4 | Apr 09 | ZDB will be removed from STN |
| NEWS | 5 | Apr 19 | US Patent Applications available in IFICDB, IFIPAT, and |
| IFIUDB | | | |
| NEWS | 6 | Apr 22 | Records from IP.com available in CAPLUS, HCAPLUS, and |
| ZCAPLUS | | | |
| NEWS | 7 | Apr 22 | BIOSIS Gene Names now available in TOXCENTER |
| NEWS | 8 | Apr 22 | Federal Research in Progress (FEDRIP) now available |
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| NEWS | 10 | Jun 10 | MEDLINE Reload |
| NEWS | 11 | Jun 10 | PCTFULL has been reloaded |
| NEWS | 12 | Jul 02 | FOREGE no longer contains STANDARDS file segment |
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| NEWS | 17 | Aug 08 | PHARMAMarketLetter(PHARMAML) - new on STN |
| NEWS | 18 | Aug 08 | NTIS has been reloaded and enhanced |
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| NEWS | 21 | Aug 19 | The MEDLINE file segment of TOXCENTER has been reloaded |
| NEWS | 22 | Aug 26 | Sequence searching in REGISTRY enhanced |
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| NEWS | 24 | Sep 16 | Experimental properties added to the REGISTRY file |
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| NEWS | 28 | Oct 24 | BEILSTEIN adds new search fields |
| NEWS | 29 | Oct 24 | Nutraceuticals International (NUTRACEUT) now available on |
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| NEWS | 33 | Dec 02 | TIBKAT will be removed from STN |
| NEWS | 34 | Dec 04 | CSA files on STN |
| NEWS | 35 | Dec 17 | PCTFULL now covers WP/PCT Applications from 1978 to date |
| NEWS | 36 | Dec 17 | TOXCENTER enhanced with additional content |
| NEWS | 37 | Dec 17 | Adis Clinical Trials Insight now available on STN |
| NEWS | 38 | Dec 30 | ISMEC no longer available |

NEWS 39 Jan 21 NUTRACEUT offering one free connect hour in February 2003
 NEWS 40 Jan 21 PHARMAML offering one free connect hour in February 2003
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 ENERGY, INSPEC
 NEWS 42 Feb 13 CANCERLIT is no longer being updated
 NEWS 43 Feb 24 METADEX enhancements
 NEWS 44 Feb 24 PCTGEN now available on STN
 NEWS 45 Feb 24 TEMA now available on STN
 NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation
 NEWS 47 Feb 26 PCTFULL now contains images
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 NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003
 NEWS 50 Mar 20 EVENTLINE will be removed from STN
 NEWS 51 Mar 24 PATDPAFULL now available on STN
 NEWS 52 Mar 24 Additional information for trade-named substances without
 structures available in REGISTRY
 NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
 CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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 DICTIONARY FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

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Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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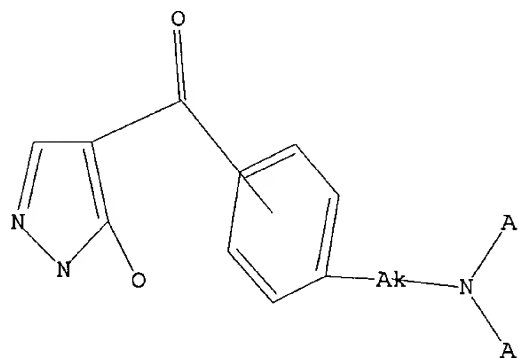
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L1 HAS NO ANSWERS

L1 STR



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100.0% PROCESSED 12321 ITERATIONS

32 ANSWERS

SEARCH TIME: 00.00.01

L2 32 SEA SSS FUL L1

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27129798 CAPLUS/LC

L3 32 L2 AND CAPLUS/LC

=> fil caplus

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TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

152.37

152.58

FILE 'CAPLUS' ENTERED AT 09:21:31 ON 04 APR 2003

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FILE COVERS 1907 - 4 Apr 2003 VOL 138 ISS 15
FILE LAST UPDATED: 3 Apr 2003 (20030403/ED)

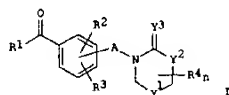
This file contains CAS Registry Numbers for easy and accurate substance identification.

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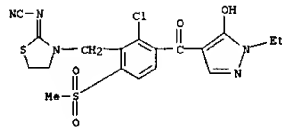
L4 4 L2

=> d 1-4 ibib abs hitstr

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|---|------|-------------------|--------------------|----------|
| | WO 2002010155 | AI | 20020207 | WO 2001-EPP8225 | 20010717 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TZ, UA, UG, US, VZ, VN, YU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | KW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TG, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, NE, SN, TD, TG | | | | |
| | DE 10037149 | AI | 20020207 | DE 2000-10037149 | 20000729 |
| | PRIORITY APP. INFO.: | | | DE 2000-10037149 A | 20000729 |
| | OTHER SOURCE(S): | | MARPAT 136:151159 | | |
| | G1 | | | | |



L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)

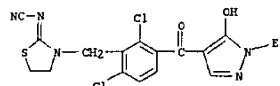
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L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)
R3 = H, NO2, cyano, CO2H, carbamoyl, thiocarbamoyl, halo,
(substituted)
alkyl, alkoxy, etc.; R4 = (substituted) alkyl; Y1 = bond, O, S, N2,
(substituted) alkylene; Y2 = S, N2; Y3 = N4, N4Y5, O; Y4 = H, cyano,
NO2, (substituted) alkylcarbonyl, alkylsulfonyl, arylalkyl,
arylsulfonyl; Y5 = cyano, NO2, (substituted) alkylcarbonyl,
alkylsulfonyl,
arylcarbonyl, arylsulfonyl; Z = H, (substituted) alkyl, alkenyl,
alkynyl.
were prep'd. Thus, a mixt. of
2-[(2-cyanoimino-1,3-thiazol-3-yl)methyl]-4-
trifluoromethylbenzoic acid (prepn. given), 1,3-cyclohexanedione, and
dichloroethylcarbodiimide (DCC) in MeCN was stirring for 2 h at room
temp.
followed by addn. of Et3N and Me3SiCN was stirring for 2 h at room
temp.
to give
3-[2-[(2,6-dioxocyclohexyl) carbonyl]-5-trifluoromethylbenzyl]-1,3-
thiazol-2-ylidene cyanamide. I were said to show very strong pre-
and postemergent herbicidal activity and good crop tolerance.

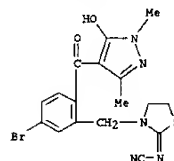
IT 395069-24-6P 395069-26-8P 395069-35-8P
395069-36-0P 395069-37-1P 395069-38-2P

(prepn. of heterocarylidene cyanamides as herbicides)

| | | |
|----|---|--------|
| RN | 395069-24-6 | CAPLUS |
| CN | Cyanamide, [3-[[2,6-dichloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME) | |



L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)

Cc1c[nH]c1C(=O)c2ccc(C#N)cc2Cn3cncn3CN1C=NC(=C1C(=O)Cc2ccc(C#N)cc2)C(=N)N3CCCC3

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)

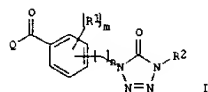
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:115133 CAPLUS
DOCUMENT NUMBER: 134:163041
TITLE: Preparation of herbicidal tetrazolinones
INVENTOR(S): Yanagi, Akihiko; Narabu, Shinichi; Goto, Toshio; Ito, Seishi; Ueno, Chieko
PATENT ASSIGNEE(S): Nihon Bayer Agrochem K.K., Japan
SOURCE: JCT Int. Appl., 115 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

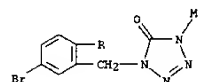
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2001010850 | A1 | 20010215 | WO 2000-181064 | 20000728 |
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| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LJ, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| BR 2000013075 | A | 20020521 | BR 2000-13075 | 20000728 |
| EP 1208090 | A1 | 20020523 | EP 2000-94182 | 20000728 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LJ, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL | | | | |
| JP 2003506443 | T2 | 20030218 | JP 2001-515316 | 20000728 |
| JP 2001114769 | A2 | 20010424 | JP 2000-231450 | 20000731 |
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| WO 2000-181064 W 20000728 | | | | |
| OTHER SOURCE(S): HARPAT 134:163041 | | | | |
| GI | | | | |

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)

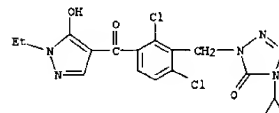


AB The title compds. [I; R1 = halo, alkyl, haloalkyl, etc.; R2 = H, alkyl, (un)substituted cycloalkyl, etc.; m = 0-2; n = 0-1; Q = (un)substituted 1,3-dioxo-2-cyclohexanyl, 5-hydroxy-4-pyrazolyl, 4-isoxazolyl, etc.], useful as herbicides, were prepd. Thus, treatment of 2,4-dichloro-3-(4,5-dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)benzoic acid with SOCl2 followed by reaction of the resulting acid chloride with 1,3-cyclohexanedione afforded 51% II which showed more than 90% of herbicidal activity against barnyardgrass, foxtail, common amaranth and knotweed at 2.0 kg/ha.
IT 325459-96-9 CAPLUS
R1: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
RN (prepn. of herbicidal tetrazolinones)
RN 325459-96-9 CAPLUS
CN 5H-Tetrazol-5-one, 1-[[5-bromo-2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-1,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)

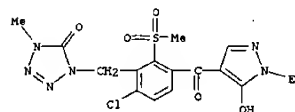
L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)



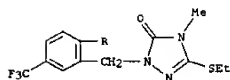
RN 325460-11-5 CAPLUS
CN 5H-Tetrazol-5-one, 1-cyclopropyl-4-[[2,6-dichloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-1,4-dihydro- (9CI) (CA INDEX NAME)



RN 325460-19-3 CAPLUS
CN 5H-Tetrazol-5-one, 1-[[6-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-2-(methylsulfonyl)phenyl]methyl]-1,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)

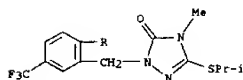


REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



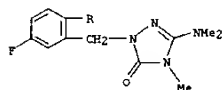
RN 295796-77-9 CAPLUS

CN 3H-1,2,4-Triazol-3-one, 2-[[2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-(trifluoromethyl)phenyl]methyl]-2,4-dihydro-4-methyl-5-[(1-methylethyl)thio]- (9CI) (CA INDEX NAME)



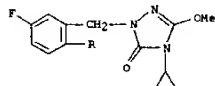
RN 295796-78-0 CAPLUS

CN 3H-1,2,4-Triazol-3-one, 4-cyclopropyl-2-[[2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-(trifluoromethyl)phenyl]methyl]-2,4-dihydro-5-methoxy- (9CI) (CA INDEX NAME)



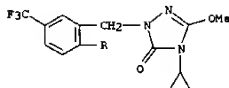
RN 295796-81-5 CAPLUS

CN 3H-1,2,4-Triazol-3-one, 4-cyclopropyl-2-[[2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-(trifluoromethyl)phenyl]methyl]-2,4-dihydro-5-methoxy- (9CI) (CA INDEX NAME)



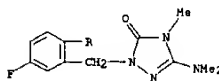
RN 295796-82-6 CAPLUS

CN 3H-1,2,4-Triazol-3-one, 4-cyclopropyl-2-[[2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-(trifluoromethyl)phenyl]methyl]-2,4-dihydro-5-methoxy- (9CI) (CA INDEX NAME)



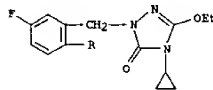
RN 295796-79-1 CAPLUS

CN 3H-1,2,4-Triazol-3-one, 5-(dimethylamino)-2-[[2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-fluorophenyl]methyl]-2,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



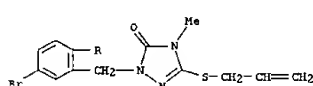
RN 295796-80-4 CAPLUS

CN 3H-1,2,4-Triazol-3-one, 5-(dimethylamino)-2-[[2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-fluorophenyl]methyl]-2,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



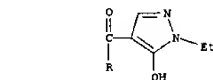
RN 295796-83-7 CAPLUS

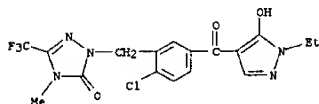
CN 3H-1,2,4-Triazol-3-one, 2-[[2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-(trifluoromethyl)phenyl]methyl]-2,4-dihydro-4-methyl-5-(2-propenylthio)- (9CI) (CA INDEX NAME)



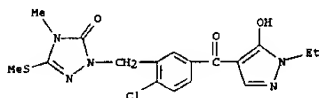
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CN 3H-1,2,4-Triazol-3-one, 2-[[2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-(trifluoromethyl)phenyl]methyl]-2,4-dihydro-4-methyl-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

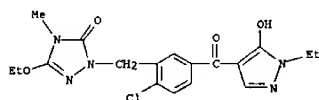




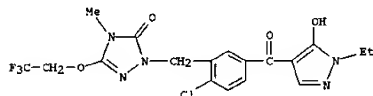
RN 295796-89-3 CAPLUS
CN 3H-1,2,4-Triazol-3-one,
2-[[2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2,4-dihydro-4-methyl-5-(methylthio)- (9CI) (CA INDEX NAME)



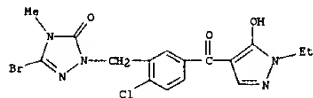
RN 295796-90-6 CAPLUS
CN 3H-1,2,4-Triazol-3-one,
2-[[2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-5-ethoxy-2,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



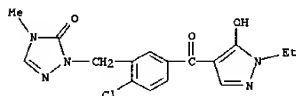
RN 295796-91-7 CAPLUS
CN 3H-1,2,4-Triazol-3-one,
2-[[2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2,4-dihydro-4-methyl-5-(2,2,2-trifluoroethoxy)- (9CI) (CA INDEX NAME)



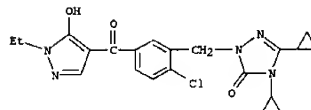
RN 295796-96-2 CAPLUS
CN 3H-1,2,4-Triazol-3-one,
5-bromo-2-[[2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



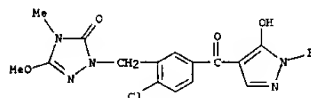
RN 295796-97-3 CAPLUS
CN 3H-1,2,4-Triazol-3-one,
2-[[2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2,4-dihydro-4-methyl-5-(1-methylethoxy)- (9CI) (CA INDEX NAME)



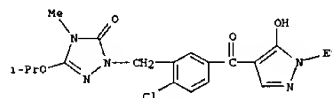
RN 295796-98-4 CAPLUS
CN 3H-1,2,4-Triazol-3-one,
2-[[2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-5-cyclopropyl-2,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



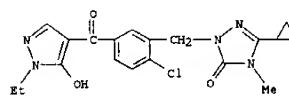
RN 295796-92-8 CAPLUS
CN 3H-1,2,4-Triazol-3-one,
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RN 295796-93-9 CAPLUS
CN 3H-1,2,4-Triazol-3-one,
2-[[2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2,4-dihydro-4-methyl-5-(1-methylethoxy)- (9CI) (CA INDEX NAME)



RN 295796-95-1 CAPLUS
CN 3H-1,2,4-Triazol-3-one,
2-[[2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2,4-dihydro-4-methyl-5-(2,2,2-trifluoroethoxy)- (9CI) (CA INDEX NAME)

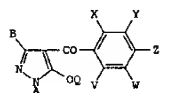


L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:98519 CAPLUS
DOCUMENT NUMBER: 112:98519
TITLE: Preparation of benzoylpyrazoles as herbicides
INVENTOR(S): Baba, Masatoshi; Kakuta, Takuya; Tanaka, Norio;
Oya, Eiichi; Ikai, Takashi; Nawamaki, Tsutomu;
Watanabe, Shigeomi
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan; CG
SOURCE: Eur. Pat. Appl., 305 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

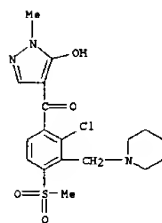
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| EP 282944 | A2 | 19880921 | EP 1988-103999 | 19880314 |
| EP 282944 | A3 | 19911009 | | |
| EP 282944 | B1 | 19960911 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| US 4885022 | A | 19891205 | US 1987-122366 | 19871118 |
| IL 85659 | A1 | 19920329 | IL 1988-85659 | 19880307 |
| AU 8813099 | A1 | 19880915 | AU 1988-13099 | 19880311 |
| AU 599468 | B2 | 19900719 | | |
| US 4948887 | A | 19900814 | US 1988-166139 | 19880314 |
| CA 1328260 | A1 | 19940405 | CA 1988-561419 | 19880314 |
| AT 142624 | E | 19960915 | AT 1988-103999 | 19880314 |
| ES 2094719 | T3 | 19970201 | ES 1988-103999 | 19880314 |
| HU 45847 | A2 | 19880920 | HU 1988-1213 | 19880315 |
| HU 204513 | B | 19920128 | | |
| JP 02000173 | A2 | 19900105 | JP 1988-61349 | 19880315 |
| JP 2725274 | B2 | 19980311 | | |
| CN 88101455 | A | 19880928 | CN 1988-101455 | 19880316 |
| CN 1023011 | B | 19931208 | | |
| ZA 8801873 | A | 19891129 | ZA 1988-1873 | 19880316 |
| RO 100305 | B1 | 19920608 | RO 1988-132602 | 19880316 |
| RO 105806 | B1 | 19921230 | RO 1988-143594 | 19880316 |
| SU 1836018 | A3 | 19930823 | SU 1988-4355524 | 19880316 |
| DK 8801464 | A | 19880918 | DK 1988-1464 | 19880317 |
| DK 170668 | B1 | 19951127 | | |
| BR 8801218 | A | 19881025 | BR 1988-1218 | 19880317 |
| US 5175299 | A | 19921229 | US 1991-785241 | 19911101 |
| RU 2055836 | C1 | 19960310 | RU 1992-5011739 | 19920521 |
| JP 10095702 | A2 | 19980414 | JP 1997-211488 | 19970806 |
| JP 2943778 | B2 | 19990830 | | |
| JP 11171828 | A2 | 19990629 | JP 1998-248300 | 19980902 |
| JP 3008398 | B2 | 20000214 | | |
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| | | | JP 1987-61937 | A 19870317 |
| | | | JP 1987-179797 | A 19870717 |
| | | | JP 1987-247601 | A 19870930 |
| | | | JP 1988-5449 | A 19880113 |
| | | | US 1987-122366 | B2 19871118 |
| | | | EP 1988-103999 | 19880314 |
| | | | US 1988-166139 | A3 19880314 |

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)
JP 1988-61349 A3 19880315
JP 1987-211488 A3 19880315
US 1990-504311 B3 19900404
OTHER SOURCE(S): MARPAT 112:98519
GI



AB Title compds. I [A = C1-3 alkyl, C2-4 alkenyl, C2-4 alkynyl; B = H, C1-3 alkyl, halo, halo-C1-3 alkyl, C1-3 alkoxy, C1-3 alkylthio, C2-4 alkoxyalkyl, C2-4 alkylthioalkyl, C2-4 alkoxyalkoxy, X = C1-6 alkyl, C1-6 alkoxy, C2-6 alkoxyalkyl, halo, O2N, cyano, halo-C1-6 alkyl, etc.; Y = R1O2C, R1 = H, C1-6 alkyl, C3-8 cycloalkyl, C3-8 alkynyl, C2-6 alkenyl, etc.; Z = halo, O2N, C1-3 alkoxy, F3C, cyano, C1-4 alkylthio, etc.; V = H, halo, C1-4 alkyl, C1-4 alkoxy; W = H, halo, C1-4 alkyl, halo-C1-4 alkyl, C1-4 alkoxy, C2-6 alkoxyalkyl, O2N, cyano, C1-4 alkylthio, etc.; Q = H, (un)substituted C1-6 alkyl, (un)substituted C1-6 alkenyl, NCCH2, (un)substituted Bz, C1-6 alkynyl, etc.] and a salt thereof, are prepd. 2,3,4-Me(MeOCH2)(MeSO2)C6H2CO2H, 1-ethyl-5-hydroxypyrazole, DCC, and anhydr. K2CO3 were sequentially reacted at 80-90.degree. to give I [A = Et; B = Q = V = W = H; X = Me; Y = MeOCH2; Z = MeSO2] (II) in 66% yield. In soil and foliage treatment II, at 0.5 g/are, gave >90 control of such weeds as Echinochloa crus-gali, Setaria viridis, Eleusine indica, Digitaria adscendens, etc., without damage to corn.
IT 120101-18-08
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); EOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)
RN 120101-18-0 CAPLUS
CN Methanone,
[2-chloro-4-(methylsulfonyl)-3-(1-piperidinylmethyl)phenyl][5-hydroxy-1-methyl-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)



=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

18.98

171.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.60

-2.60

FILE 'REGISTRY' ENTERED AT 09:22:36 ON 04 APR 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

DICTIONARY FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

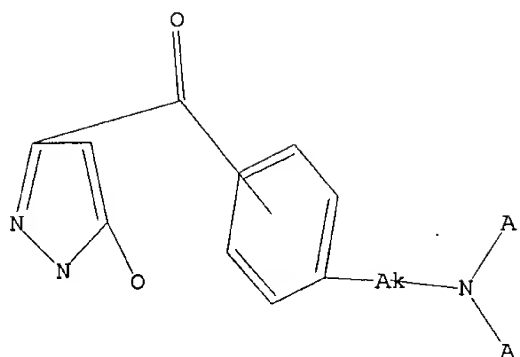
Uploading 09937631.str

L5 STRUCTURE UPLOADED

=> d

L5 HAS NO ANSWERS

L5 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l5 ful
FULL SEARCH INITIATED 09:23:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 9709 TO ITERATE
```

```
100.0% PROCESSED      9709 ITERATIONS
SEARCH TIME: 00.00.01
```

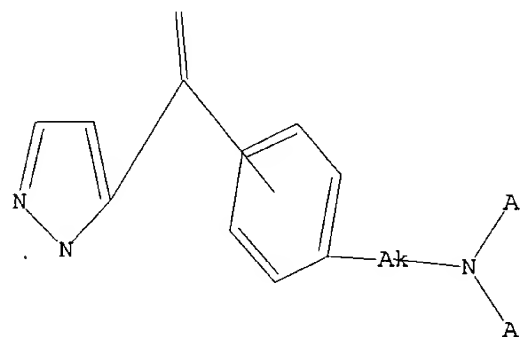
0 ANSWERS

```
L6          0 SEA SSS FUL L5
```

```
=>
Uploading 09937631.str
```

```
L7          STRUCTURE UPLOADED
```

```
=> d
L7 HAS NO ANSWERS
L7          STR
```



Structure attributes must be viewed using STN Express query preparation.

=> s 17 ful
FULL SEARCH INITIATED 09:23:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 66867 TO ITERATE

100.0% PROCESSED 66867 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.02

L8 0 SEA SSS FUL L7

| | | |
|--|------------|---------|
| => fil stnguide | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 296.30 | 467.86 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -2.60 |

FILE 'STNGUIDE' ENTERED AT 09:24:00 ON 04 APR 2003
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 31, 2003 (20030331/UP).

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.06 | 467.92 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -2.60 |

STN INTERNATIONAL LOGOFF AT 09:24:42 ON 04 APR 2003